CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

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QC ABSTRACT

Nameof Work:"Providing Sculptures murals at Parks, Lakes and Junctions in Yelahanka Assembly Constituency".

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	Materials	_	1	1	Pass
2	Steel	2.43Tonne	1	1	Pass
3	M15	5.00Cum	1	1	Pass
4	M25	54.16Cum	5	5	Pass

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

CIVIL AIM CONSULTANTS & ENGINEERS

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/STK/Proj/2022-23

Date: 17.10.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.**
AGENCY	:	**Sri.Shankarappa T K (MESPC Infra Projects Limited), Contractor, Bangalore.**
NAME OF THE WORK	:	"Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		September - 2022
DATE OF TESTING		15.10.2022 to 17.10.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Si.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

Note:

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Date :17.10.2022

Job No.: CACE/BBMP/STK/Proj/2022-23

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.**

Agency : **Sri.Shankarappa T K (MESPC Infra Projects Limited), Contractor, Bangalore.**

Name of Work :"Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".

Date of Testing :17.10.2022

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	91	9.10	9.10	90.9	90-100
2.36	129	12.90	22.00	78.0	75-100
1.18	179	17.90	39.90	60.1	55-90
600 Micron	167	16.70	56.60	43.4	35-59
300 Micron	251	25.10	81.70	18.3	8-30
150 Micron	141	14.10	95.80	4.2	0-10

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Date : 17.10.2022

Job No.: CACE/BBMP/STK/Proj/2022-23

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client :**Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.**

Agency : **Sri.Shankarappa T K (MESPC Infra Projects Limited), Contractor, Bangalore.**

Name of Work :"Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".

Date of Testing : 17.10.2022

Material : Sand - Masonry

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	15	1.50	1.50	98.5	90-100
1.18	40	4.00	5.50	94.5	70-100
600 Micron	87	8.70	14.20	85.8	40-100
300 Micron	249	24.90	39.10	60.9	5-70
150 Micron	485	48.50	87.60	12.4	0-15

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Date :17.10.2022

Job No.: CACE/BBMP/STK/Proj/2022-23

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.**

Agency : **Sri.Shankarappa T K (MESPC Infra Projects Limited), Contractor, Bangalore.**

Name of Work :"Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".

Date of Testing :17.10.2022

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	191	3.8	3.8	96.2	95-100
10	2445	48.9	52.7	47.3	25-55
4.75	1962	39.2	92.0	8.0	0-10

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Date :17.10.2022

Job No.: CACE/BBMP/STK/Proj/2022-23

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.**

Agency : **Sri.Shankarappa T K (MESPC Infra Projects Limited), Contractor, Bangalore.**

Name of Work :"Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".

Date of Testing :17.10.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	197	1.31	1.31	98.69	95-100
20	8255	55.03	56.35	43.65	30-70
10	3249	21.66	78.01	21.99	10-35
4.75	2815	18.77	96.77	3.23	0-5

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Date : 18.10.2022

Job No.: CACE/BBMP/STK/Proj/2022-23

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.**

Agency : **Sri.Shankarappa T K (MESPC Infra Projects Limited), Contractor, Bangalore.**

Name of Work :"Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".

Steel Dia/Length : 10mm,12mm,16mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 18.10.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	10	0.619	555	646	1.16	14.5
2	TMT	12	0.891	565	660	1.17	15
3	TMT	16	1.58	575	669	1.16	15.5

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Job No.: CACE/BBMP/STK/Proj/2022-23

Date: 27.10.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.**
Agency	**: Sri.Shankarappa T K (MESPC Infra Projects Limited), Contractor, Bangalore.**
Name of the work	:"Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.10.2022	27.10.2022	8.145	278.2	12.36
2	20.10.2022	27.10.2022	8.136	265.3	11.79
3	20.10.2022	27.10.2022	8.168	270.9	12.04

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Job No.: CACE/BBMP/STK/Proj/2022-23 Date: 17.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.

Agency : Sri.Shankarappa T K (MESPC Infra Projects Limited), Contractor, Bangalore.

Name of the work :"Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.10.2022	17.11.2022	8.178	389.6	17.32
2	20.10.2022	17.11.2022	8.184	376.5	16.73
3	20.10.2022	17.11.2022	8.169	380.1	16.89

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Job No: CACE/BBMP/STK/Proj/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 03.11.2022

Client	
Agency	: Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.
Name of the work	: Sri.Shankarappa T K (M/SPC Infra Projects Limited), Contractor, Bangalore.
Sample ID	: "Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".
Size of cubes	: Cement concrete for footing
Cross Sectional Area	: 150mmx150mmx150mm
Technical Reference	: 22500 mm^2
Grade of Concrete	: IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on	: M_{25}
	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2022	02.11.2022	8.148	400.8	17.81
2	26.10.2022	02.11.2022	8.152	405.2	18.12
3	26.10.2022	02.11.2022	8.119	416.2	18.16

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Job No.: CACE/BBMP/STK/Proj/2022-23

Date: 23.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.
Agency	: Sri.Shankarappa T K (MESPC Infra Projects Limited), Contractor, Bangalore.
Name of the work	: "Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".
Sample ID	: Cement concrete for footing
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight ot cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2022	23.11.2022	8.170	626.3	27.14
2	26.10.2022	23.11.2022	8.184	608.2	27.65
3	26.10.2022	23.11.2022	8.205	598.6	27.54

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Job No.: CACE/BBMP/STK/Proj/2022-23

Date: 02.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.**

Agency : **Sri.Shankarappa 'I' K (MESPC Infra Projects Limited), Contractor, Bangalore.**

Name of the work : "Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".

Sample ID : Cement concrete for footing

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2022	02.11.2022	8.145	398.6	17.72
2	26.10.2022	02.11.2022	8.188	406.2	18.05
3	26.10.2022	02.11.2022	8.176	400.8	17.81

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Job No:- CAC&E/BBMP/SVK/Prof/2022-23 Date: 23.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.
Agency	: Sri.Shankarappa V K (M/S.PC Infra Projects Limited), Contractor, Bangalore.
Name of the work	: "Providing Sculptures made at Palike Aduvanal Junctions in Yelahanka Assembly Constituency".
Sample ID	: Cement concrete for footing
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2004)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2022	23.11.2022	8.152	626.3	27.32
2	26.10.2022	23.11.2022	8.160	619.2	27.36
3	26.10.2022	23.11.2022	8.172	600.9	26.71

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Date: 03.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.
Agency	: Sri.Shankarappa T K (MESPC Infra Projects Limited), Contractor, Bangalore.
Name of the work	: "Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".
Sample ID	: Cement concrete for Pedestal
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight ot cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.10.2022	03.11.2022	8.128	395.6	17.14
2	27.10.2022	03.11.2022	8.156	389.1	18.10
3	27.10.2022	03.11.2022	8.164	408.1	18.60

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Job No.: CACE/BBMP/STK/Proj/2022-23 Date: 24.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.**
Agency	**: Sri.Shankarappa T K (MESPC Infra Projects Limited), Contractor, Bangalore.**
Name of the work	: "Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".
Sample ID	: Cement concrete for Pedestal
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.10.2022	24.11.2022	8.186	623.6	27.16
2	27.10.2022	24.11.2022	8.191	635.2	26.34
3	27.10.2022	24.11.2022	8.156	618.9	27.51

Note:
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3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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(Building Geo-Tech & Highway Materials Testing Laboratory)

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Job No:: CAC/E/BBMP/STK/Dvl/2023-24 Date: 03.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.

Agency : Sri.Shankarappa T K (M/S.SPC Infra Projects Limited), Contractor, Bangalore.

Name of the work : "Providing Sculptures murals at Parks,Unbound Junctions in Yelahanka Assembly Constituency"

Sample ID : Cement concrete for Pedestal

Size of cubes : 150mm x 150mm x 150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2009)

Grade of Concrete : M25

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (kg)	Failure load (KN)	Compressive strength (N/mm²)
1	27.10.2023	03.11.2023	8.163	380.6	17.14
2	27.10.2023	03.11.2023	8.130	405.5	18.10
3	27.10.2023	03.11.2023	8.110	416.3	18.54

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Job No.: CACE/BBMP/STK/Proj/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 24.11.2022

Client	: **Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.**
Agency	: **Sri.Shankarappa 'I' K (MESPC Infra Projects Limited), Contractor, Bangalore.**
Name of the work	: "Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".
Sample ID	: Cement concrete for Pedestal
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.10.2022	24.11.2022	8.144	626.3	29.15
2	27.10.2022	24.11.2022	8.153	608.2	28.14
3	27.10.2022	24.11.2022	8.172	598.6	26.14

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Job No.: CACE/BBMP/STK/Proj/2022-23

Date: 04.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore.**
Agency	**: Sri.Shankarappa 'I' K (MESPC Infra Projects Limited), Contractor, Bangalore.**
Name of the work	: "Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency".
Sample ID	: Cement concrete for Pedestal
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.10.2022	04.11.2022	8.145	398.6	17.45
2	28.10.2022	04.11.2022	8.161	406.2	17.54
3	28.10.2022	04.11.2022	8.176	400.8	17.53

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Job No.: CACE/BBMP/STK/Proj/2022-23

Date: 25.11.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Project Division, Yelahanka Zone,BBMP, Bangalore,
Agency	: Sri.Shankarappa T K (MESPC Infra Projects Limited), Contractor, Bangalore,
Name of the work	: "Providing Sculptures murals at Parks,Lakesand Junctions in Yelahanka Assembly Constituency",
Sample ID	: Cement concrete for Pedestal
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^3
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{35}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.10.2022	25.11.2022	8.141	626.3	29.54
2	28.10.2022	25.11.2022	8.147	635.2	29.14
3	28.10.2022	25.11.2022	8.154	600.9	27.54

Note:

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